

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120823\
 Data File : VX039098.D
 Acq On : 08 Dec 2023 12:05
 Operator : JC/MD
 Sample : 05697-01 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 EFF-WW

Quant Time: Dec 08 23:46:45 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 27 03:22:25 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

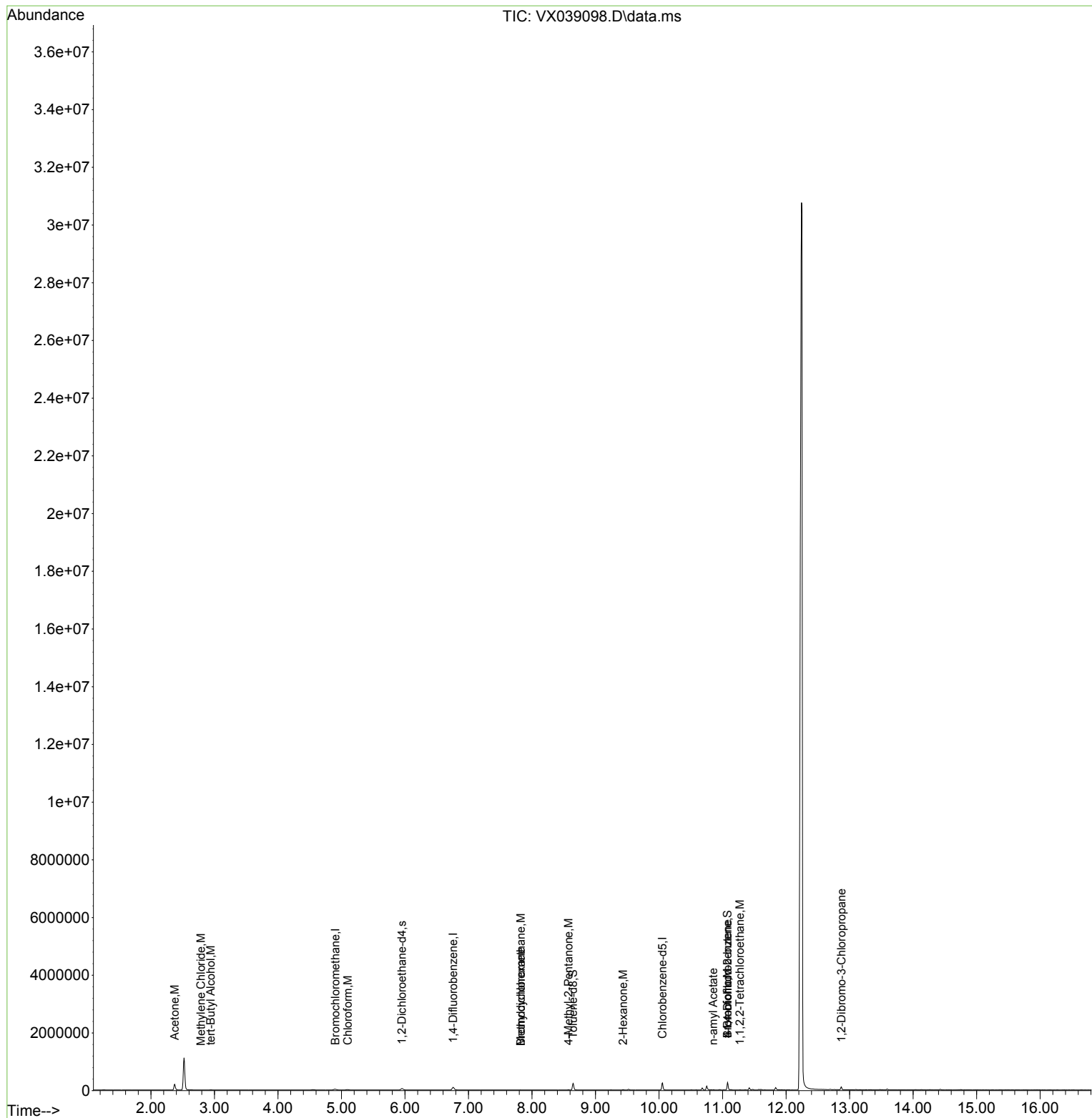
Internal Standards						
1) Bromochloromethane	4.904	128	10989	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	90088	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	111013	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	45611	30.339	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.133%
60) 4-Bromofluorobenzene	11.079	95	70601	29.117	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	97.067%
63) Toluene-d8	8.647	98	132179	30.116	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.400%
Target Compounds						
					Qvalue	
15) Acetone	2.373	58	66046	159.353	ug/l	99
18) Methylene Chloride	2.788	84	602	0.340	ug/l #	87
23) tert-Butyl Alcohol	2.940	59	2614	4.141	ug/l #	100
25) Chloroform	5.099	83	15206	4.826	ug/l	93
38) Methylcyclohexane	7.824	83	1759	0.559	ug/l #	22
41) Bromodichloromethane	7.824	83	1759	0.668	ug/l #	84
47) n-amyl Acetate	10.854	43	1536	0.352	ug/l #	1
56) Bromoform	11.079	173	422	0.292	ug/l #	1
58) 4-Methyl-2-Pentanone	8.574	43	5330	1.583	ug/l	91
59) 2-Hexanone	9.433	43	7130	2.580	ug/l	95
71) 1,1,2,2-Tetrachloroethane	11.274	83	805	0.251	ug/l #	35
77) t-1,4-Dichloro-2-butene	11.079	75	37625	34.973	ug/l #	12
88) 1,2-Dibromo-3-Chloropr...	12.872	75	2318	2.825	ug/l #	7

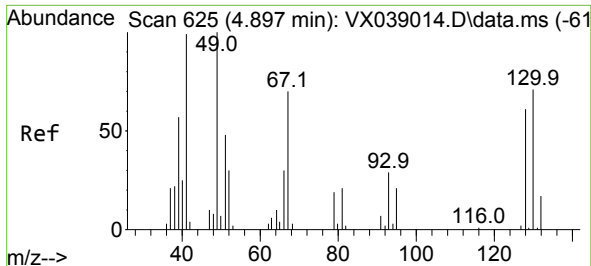
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120823\
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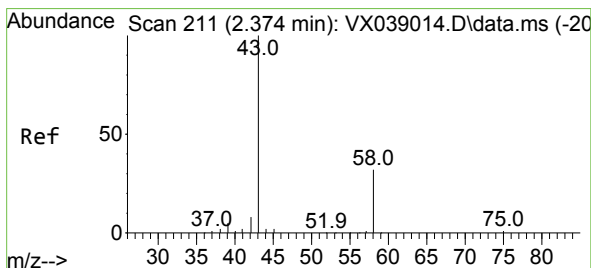
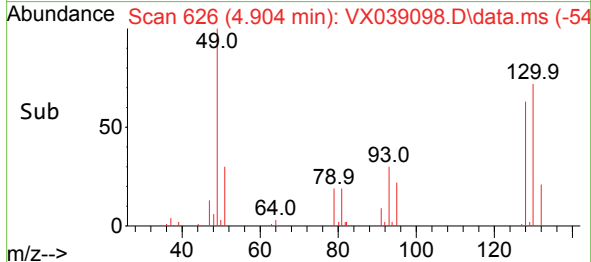
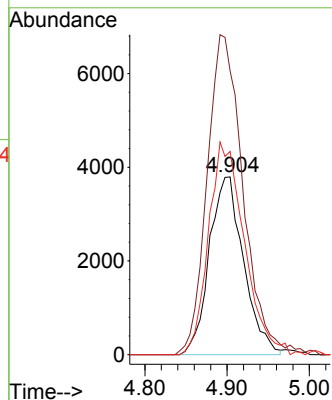
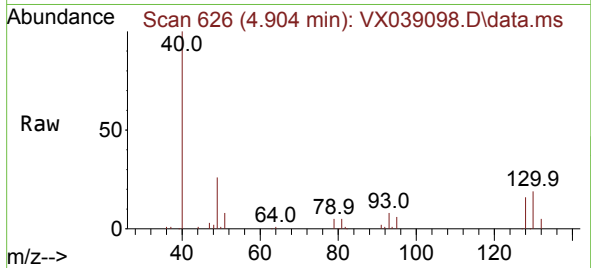




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. 0.007 min
Lab File: VX039098.D
Acq: 08 Dec 2023 12:05

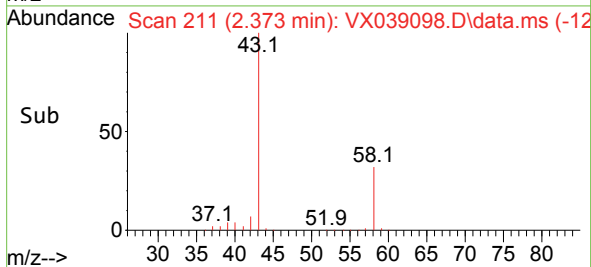
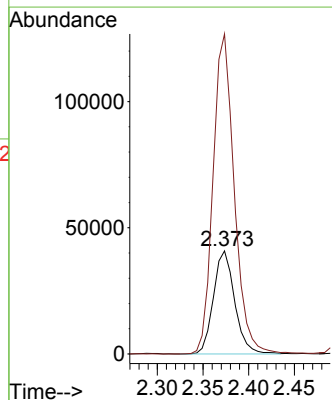
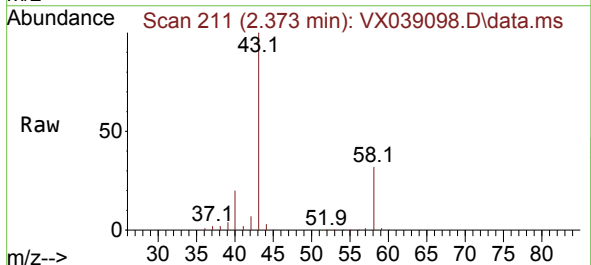
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

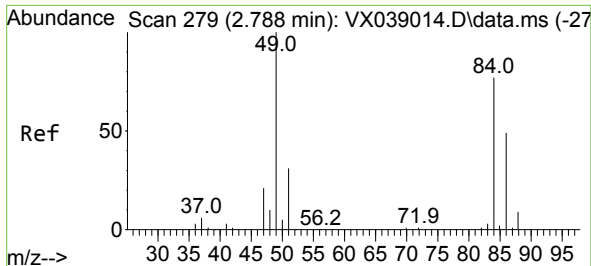
Tgt Ion	Ratio	Lower	Upper
128	100		
49	187.4	0.0	444.0
130	124.2	0.0	297.8



#15
Acetone
Concen: 159.353 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX039098.D
Acq: 08 Dec 2023 12:05

Tgt Ion	Ratio	Lower	Upper
58	100		
43	310.4	249.9	374.9



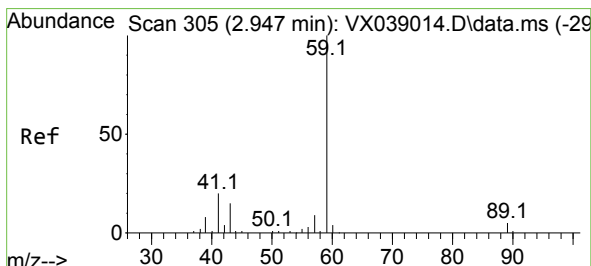
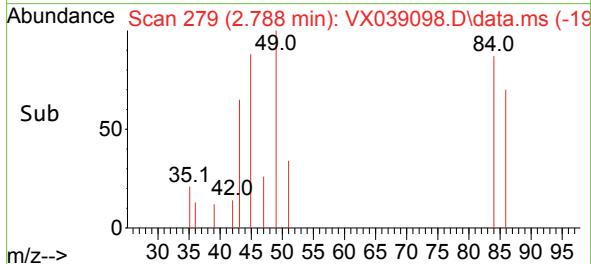
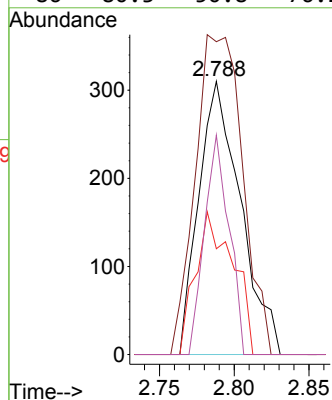
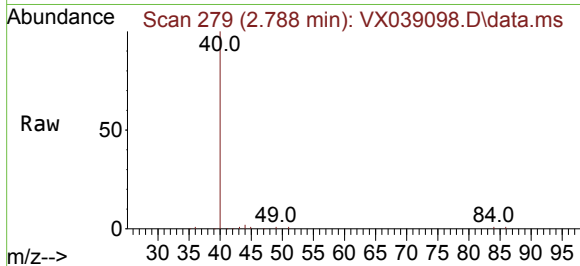


#18
Methylene Chloride
Concen: 0.340 ug/l
RT: 2.788 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX039098.D
Acq: 08 Dec 2023 12:05

Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

Tgt Ion: 84 Resp: 602

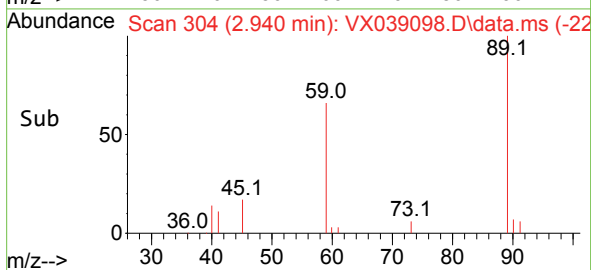
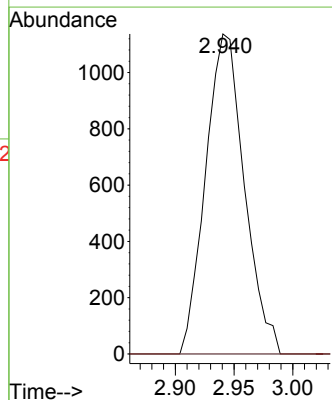
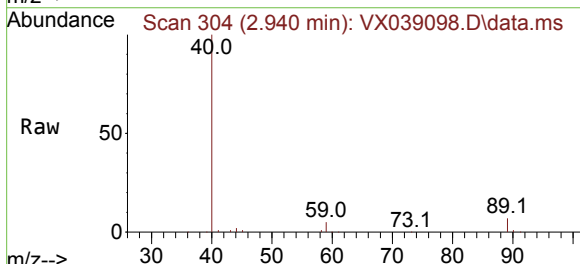
Ion	Ratio	Lower	Upper
84	100		
49	114.5	103.8	155.8
51	38.7	31.8	47.6
86	80.3	50.8	76.2

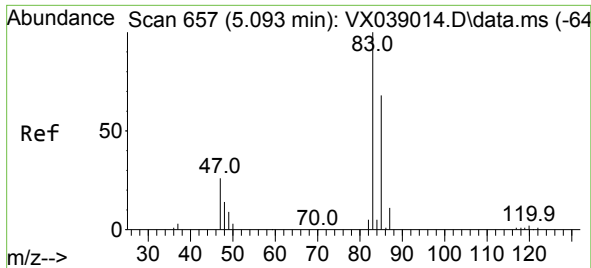


#23
tert-Butyl Alcohol
Concen: 4.141 ug/l
RT: 2.940 min Scan# 304
Delta R.T. -0.006 min
Lab File: VX039098.D
Acq: 08 Dec 2023 12:05

Tgt Ion: 59 Resp: 2614

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

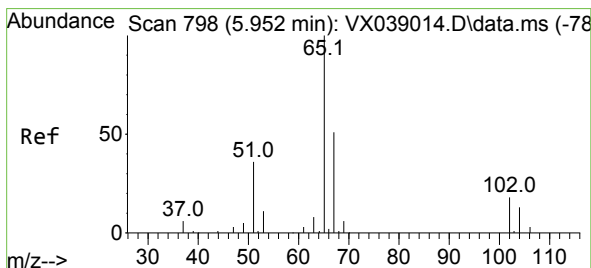
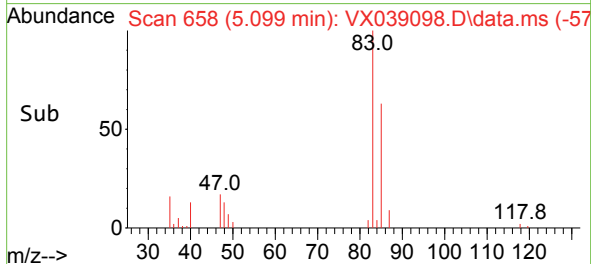
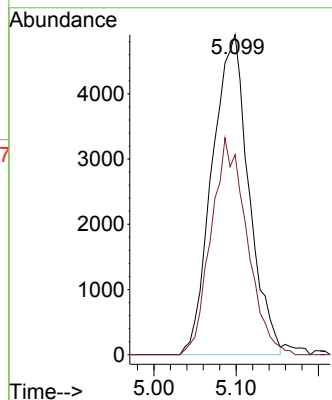
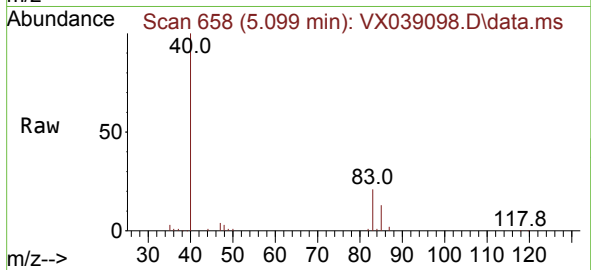




#25
Chloroform
Concen: 4.826 ug/l
RT: 5.099 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX039098.D
Acq: 08 Dec 2023 12:05

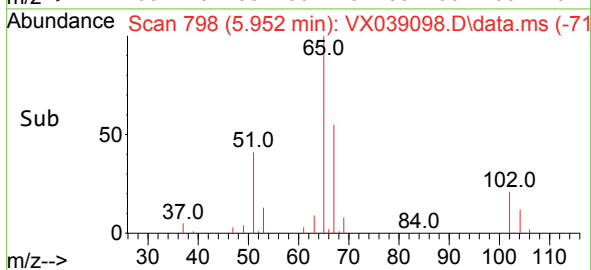
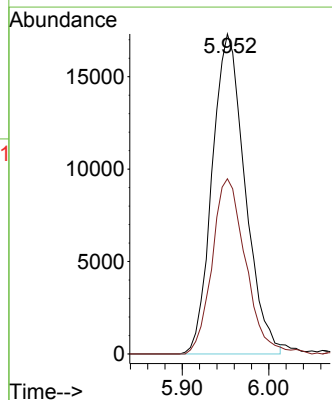
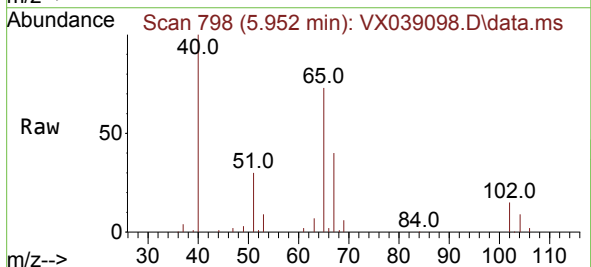
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

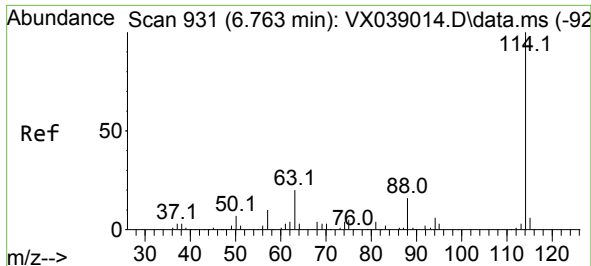
Tgt Ion: 83 Resp: 15206
Ion Ratio Lower Upper
83 100
85 62.5 54.6 81.8



#27
1,2-Dichloroethane-d4
Concen: 30.339 ug/l
RT: 5.952 min Scan# 798
Delta R.T. -0.000 min
Lab File: VX039098.D
Acq: 08 Dec 2023 12:05

Tgt Ion: 65 Resp: 45611
Ion Ratio Lower Upper
65 100
67 55.3 42.5 63.7





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. -0.006 min

Lab File: VX039098.D

Acq: 08 Dec 2023 12:05

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW

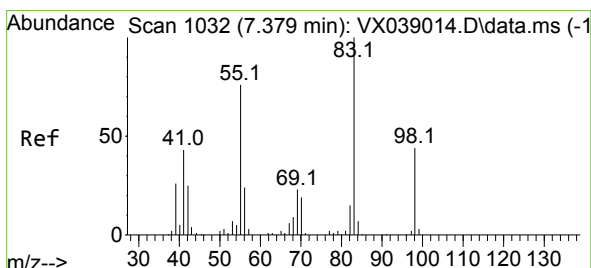
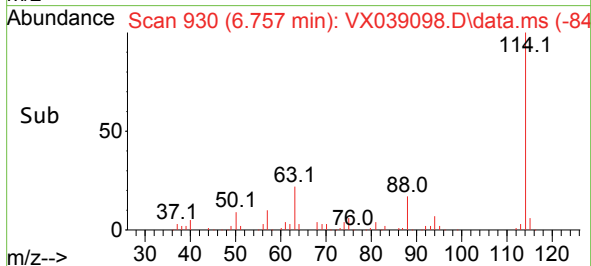
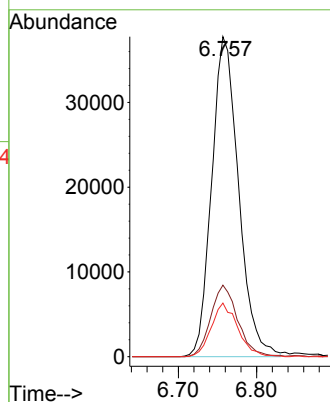
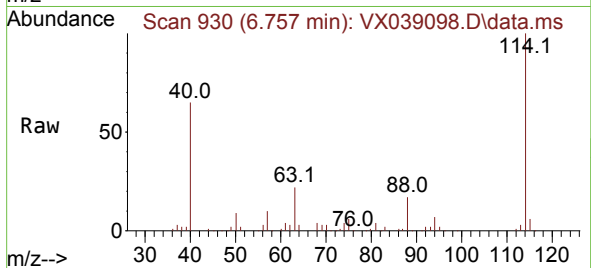
Tgt Ion:114 Resp: 90088

Ion Ratio Lower Upper

114 100

63 22.3 17.0 25.4

88 16.5 12.7 19.1



#38

Methylcyclohexane

Concen: 0.559 ug/l

RT: 7.824 min Scan# 1105

Delta R.T. 0.445 min

Lab File: VX039098.D

Acq: 08 Dec 2023 12:05

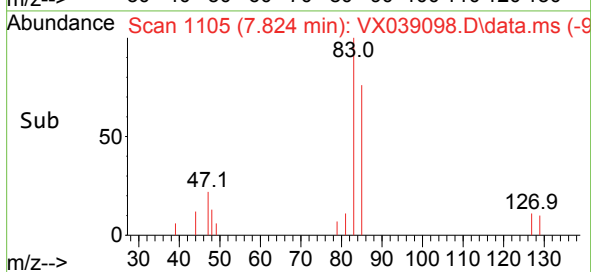
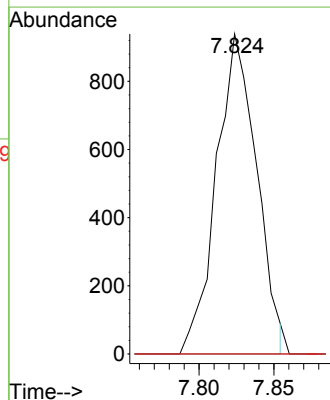
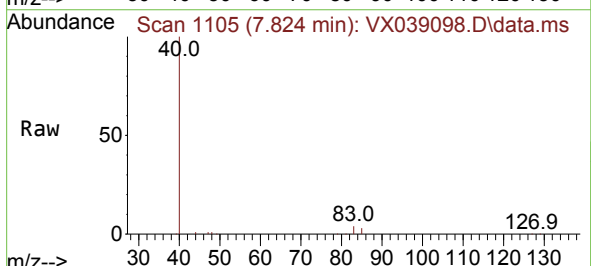
Tgt Ion: 83 Resp: 1759

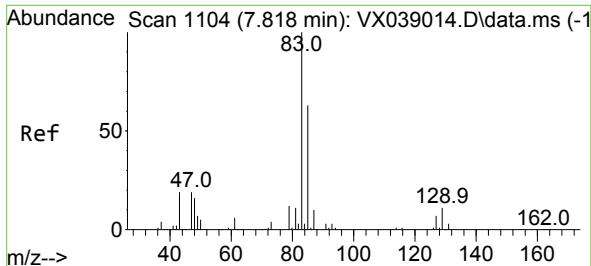
Ion Ratio Lower Upper

83 100

55 5.3 38.6 116.0#

98 0.0 22.3 66.8#

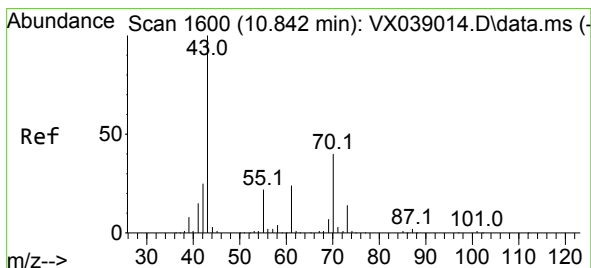
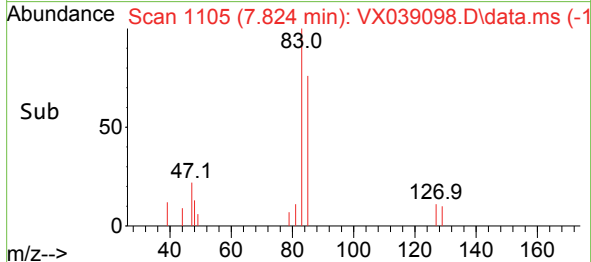
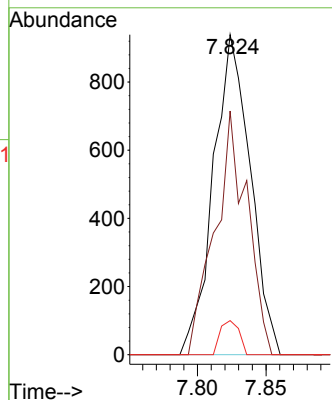
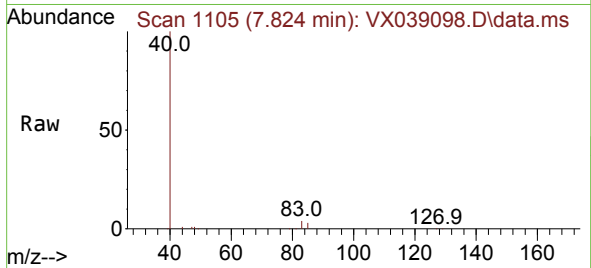




#41
Bromodichloromethane
Concen: 0.668 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. 0.006 min
Lab File: VX039098.D
Acq: 08 Dec 2023 12:05

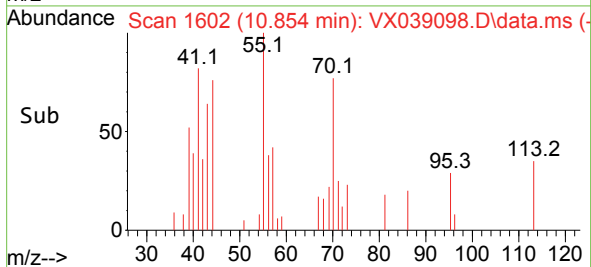
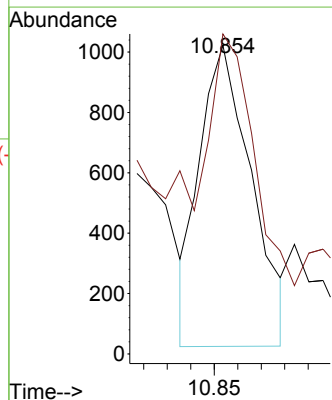
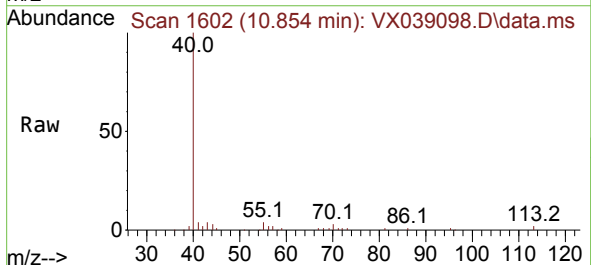
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

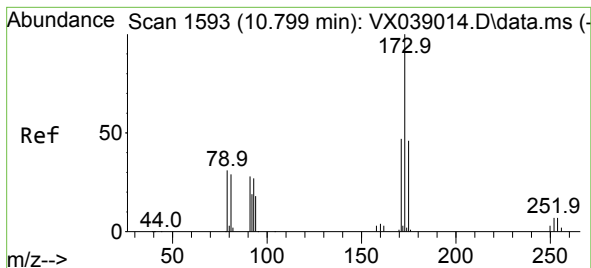
Tgt Ion: 83 Resp: 1759
Ion Ratio Lower Upper
83 100
85 76.1 50.8 76.2
127 10.6 5.9 8.9#



#47
n-amy1 Acetate
Concen: 0.352 ug/l
RT: 10.854 min Scan# 1602
Delta R.T. 0.012 min
Lab File: VX039098.D
Acq: 08 Dec 2023 12:05

Tgt Ion: 43 Resp: 1536
Ion Ratio Lower Upper
43 100
55 100.3 18.2 27.2#





#56

Bromoform

Concen: 0.292 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.280 min

Lab File: VX039098.D

Acq: 08 Dec 2023 12:05

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW

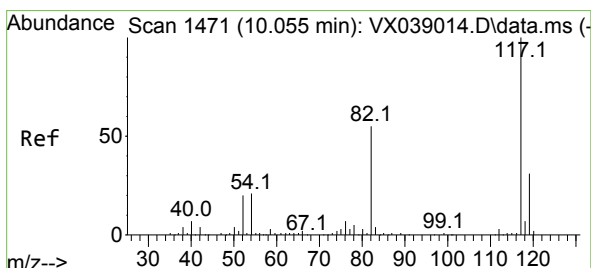
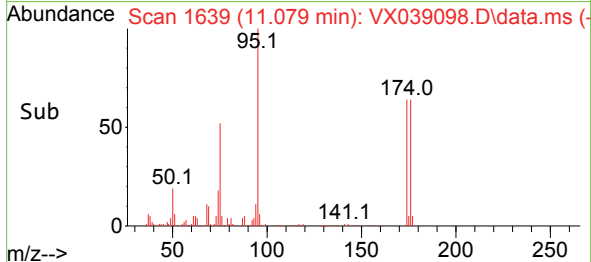
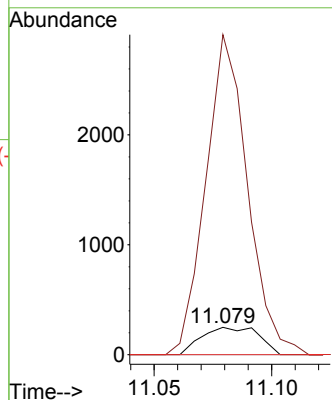
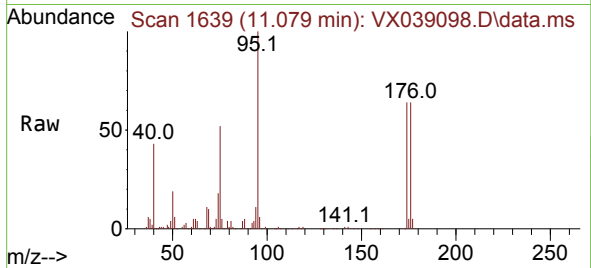
Tgt Ion:173 Resp: 422

Ion Ratio Lower Upper

173 100

175 853.6 37.6 56.4#

254 0.0 5.8 8.8#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX039098.D

Acq: 08 Dec 2023 12:05

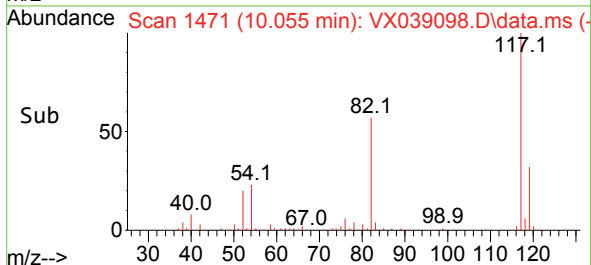
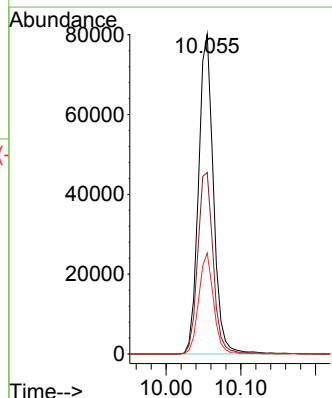
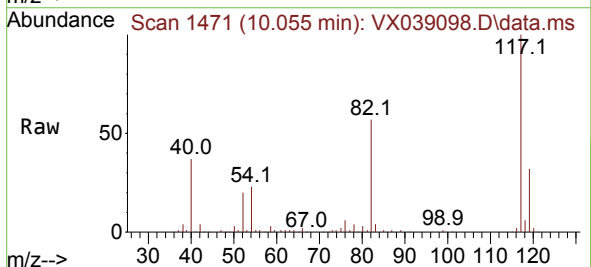
Tgt Ion:117 Resp: 111013

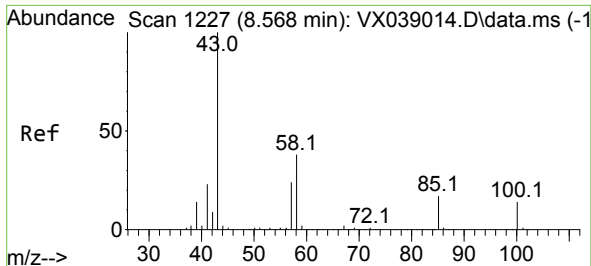
Ion Ratio Lower Upper

117 100

82 58.8 47.0 70.6

119 31.2 25.2 37.8





#58

4-Methyl-2-Pentanone

Concen: 1.583 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. 0.006 min

Lab File: VX039098.D

Acq: 08 Dec 2023 12:05

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW

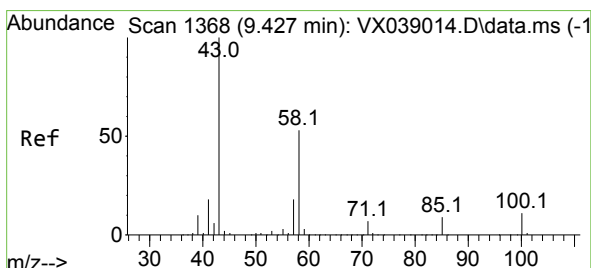
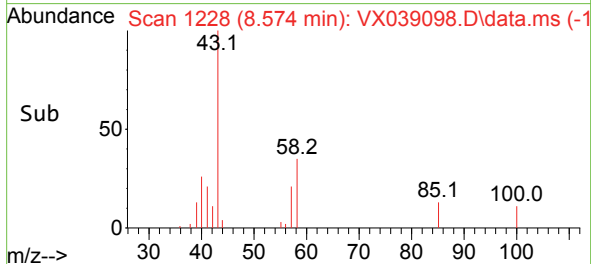
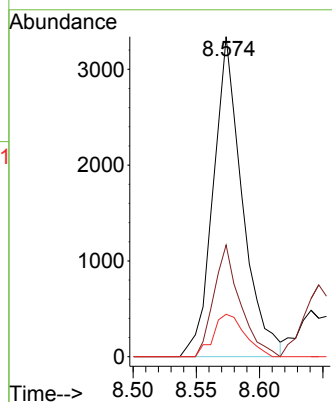
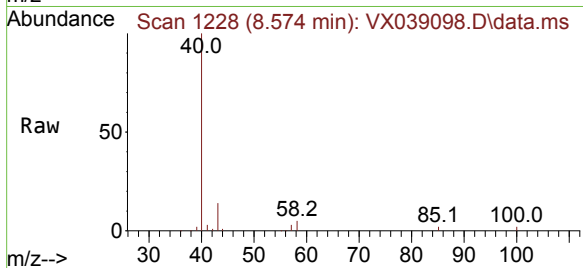
Tgt Ion: 43 Resp: 5330

Ion Ratio Lower Upper

43 100

58 31.7 30.1 45.1

85 14.4 13.9 20.9



#59

2-Hexanone

Concen: 2.580 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.006 min

Lab File: VX039098.D

Acq: 08 Dec 2023 12:05

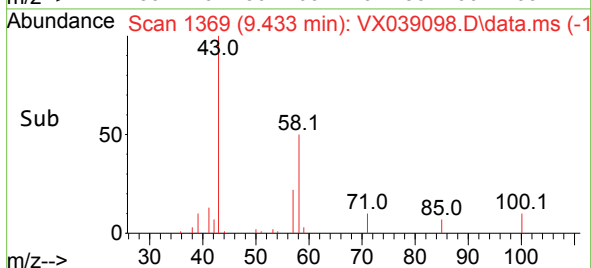
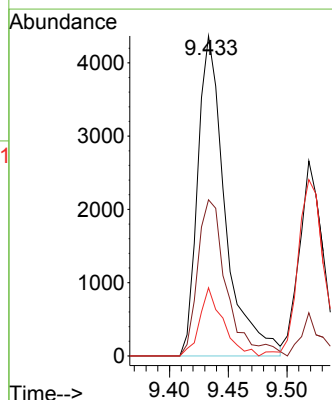
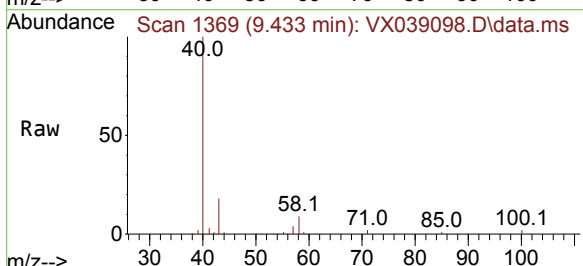
Tgt Ion: 43 Resp: 7130

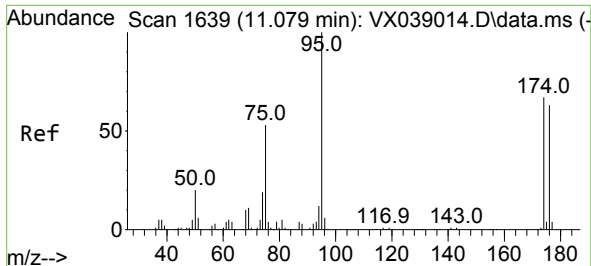
Ion Ratio Lower Upper

43 100

58 49.3 42.7 64.1

57 18.0 14.8 22.2

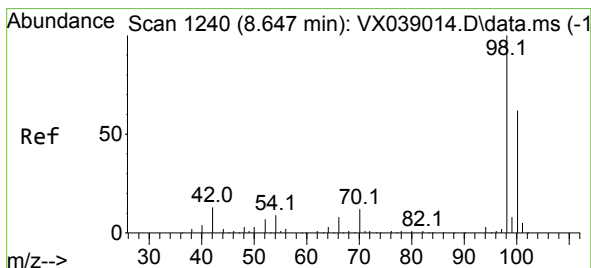
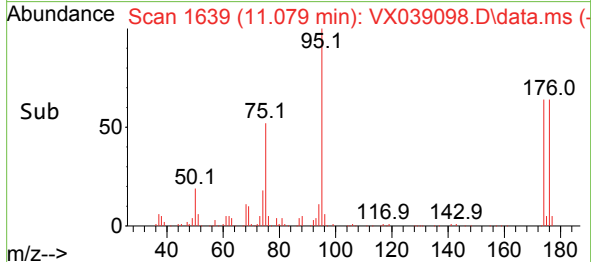
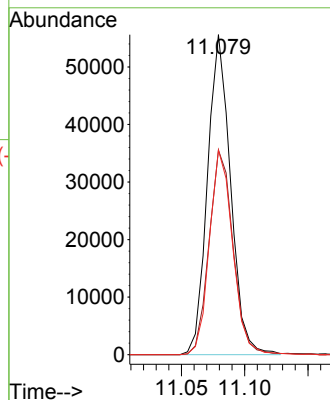
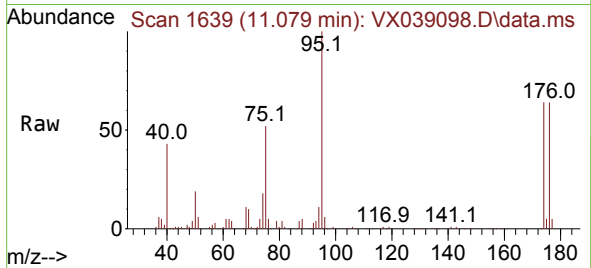




#60
4-Bromofluorobenzene
Concen: 29.117 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX039098.D
Acq: 08 Dec 2023 12:05

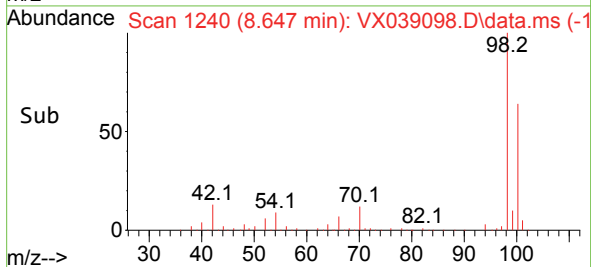
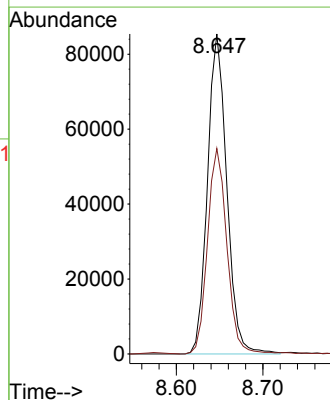
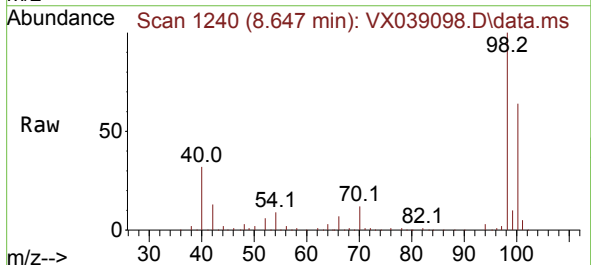
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

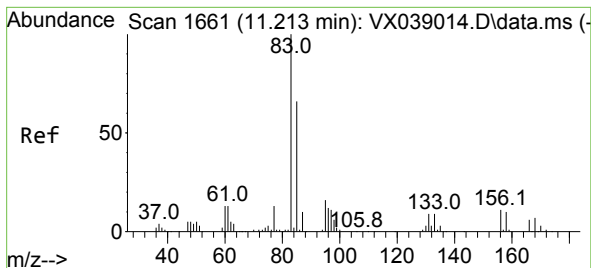
Tgt Ion: 95 Resp: 70601
Ion Ratio Lower Upper
95 100
174 66.1 55.4 83.2
176 64.5 52.6 78.8



#63
Toluene-d8
Concen: 30.116 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX039098.D
Acq: 08 Dec 2023 12:05

Tgt Ion: 98 Resp: 132179
Ion Ratio Lower Upper
98 100
100 64.4 51.0 76.4





#71

1,1,2,2-Tetrachloroethane

Concen: 0.251 ug/l

RT: 11.274 min Scan# 1

Delta R.T. 0.061 min

Lab File: VX039098.D

Acq: 08 Dec 2023 12:05

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW

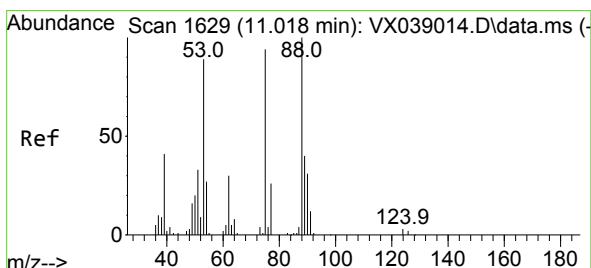
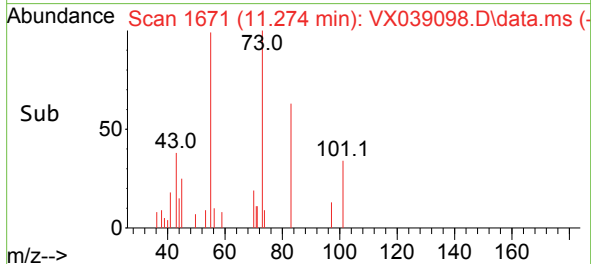
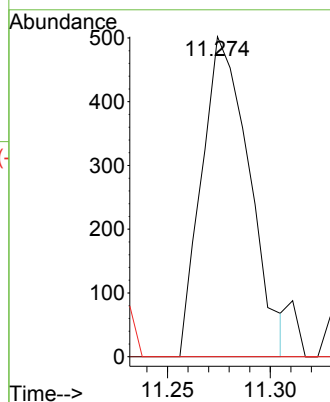
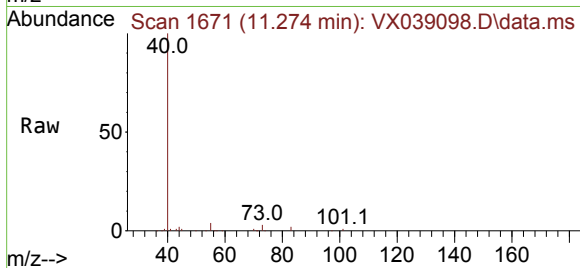
Tgt Ion: 83 Resp: 805

Ion Ratio Lower Upper

83 100

131 0.0 4.6 13.8#

85 8.9 32.5 97.4#



#77

t-1,4-Dichloro-2-butene

Concen: 34.973 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX039098.D

Acq: 08 Dec 2023 12:05

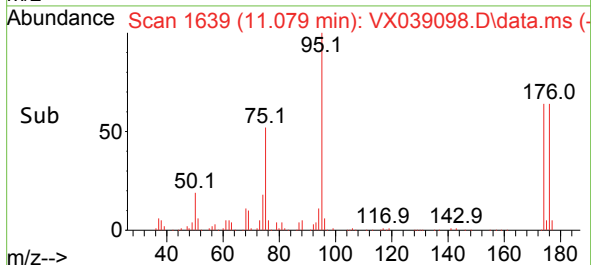
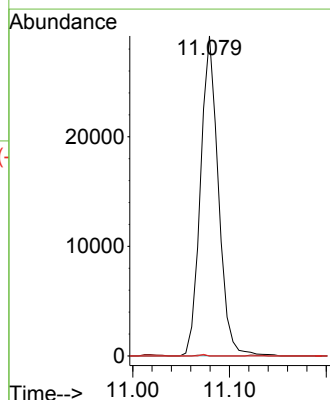
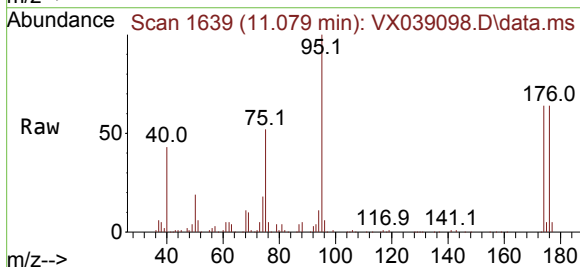
Tgt Ion: 75 Resp: 37625

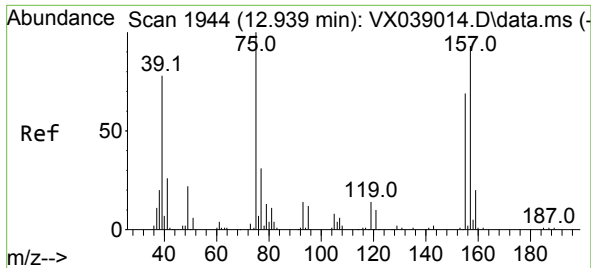
Ion Ratio Lower Upper

75 100

53 0.0 46.9 140.8#

89 0.0 21.3 63.7#





#88

1,2-Dibromo-3-Chloropropane

Concen: 2.825 ug/l

RT: 12.872 min Scan# 1933

Delta R.T. -0.067 min

Lab File: VX039098.D

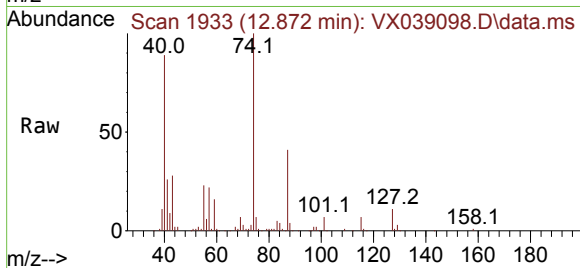
Acq: 08 Dec 2023 12:05

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW



Tgt Ion: 75 Resp: 2318

Ion Ratio Lower Upper

75 100

155 0.0 58.2 87.4#

157 0.0 76.5 114.7#

